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FILE

P 301408Z DEC 69 FM NPIC WASHDC TO RHCOAAA/SAC OFFUTT AFB OMAHA NEB RHCOAAA/544TH ARTW OFFUTT AFB OMAHA NEB RUCILBA/100TH SRW OL 19 MCCOY AFB FLA RUWMODA/100TH SRW DAVIS MONTHAN AFB ARIZ RUWMODA/12 SAD DAVIS MONTHAN AFB ARIZ RUEBJRA/NAVRECONTECHSUPPCEN SUITLAND MD RUEAIIA/CIA WASH DC RUCRJCS/DIA RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF RUEFHQA/HQS USAF BT S E C R E T CITE NPIC 7692.

SAC FOR DIRI, DOSR, DISD, DM4C, DPLC; 100 SRW DAVIS MONTHAN AFB FOR DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DIAXX-1; HQ USAF FOR AFIGOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.

SUBJECT: EVALUATION OF OLD HEAD MISSION G-110, FLOWN

22 DECEMBER 1969 IMAGE QUALITY: THE IMAGE QUALITY OF THIS MISSION RANGES

PAGE 2 RUEADJU Ø124 S E C R E T FROM POOR TO GOOD. THE MAJORITY OF THE IMAGERY DISPLAYS A SLIGHTLY SOFT APPEARANCE USUALLY ASSOCIATED WITH VEHICLE VIBRATION. NUMEROUS FRAMES IN THE MISSION PROVIDE GOOD IMAGERY AT THE TAKE-UP END OF THE FRAME WITH DECREASING IMAGE QUALITY (SOFT IMAGERY) AS ONE SCANS ACROSS THE FRAME TO THE SUPPLY END WHERE THE IMAGE QUALITY IS AT ITS $_{
m ADVANCE}$ ${
m CV}$ POOREST. NO EXPLANATION FOR THIS ACROSS THE FORMAT CHANGE CAN BE

SANITIZ WITH TEXT PROVIDED. THE FORWARD LOOKING POSITIONS PROVIDE GENERALLY BETTER QUALITY THAN DO THE AFT LOOKING FRAMES. THE INTERPRETATION SUITABILITY

IS POOR TO GOOD WITH THE MAJORITY BEING IN THE FAIR CATEGORY. CLOUD COVER OBSCURES APPROXIMATELY 45 PERCENT OF THE ENTIRE MISSION.

2. MISSION DATA:

- MISSION NO: G-110, 22 DEC 1969
- В. CAMERA: IRIS II, SERIAL NO. 8007
- C. A/C NO: 339
- MODE: STEREO D.
- E. T/O: 1245Z, C/ON: 1510Z
- FILM TYPE: 3484
- G. CHEMISTRY: MX-819
- H. AVERAGE GAMMA: 1.81
- ORIGINAL NEGATIVE:

PAGE 3 RUEADJU Ø124 S E C R E T

- Α. EXPOSURE: THE EXPOSURE RANGES FROM SLIGHTLY UNDEREXPOSED FOR THE FIRST HALF OF THE MISSION TO ADEQUATE AT THE END.
- В. DENSITY AND CONTRAST: THE DENSITY IS GENERALLY THIN TO MEDIUM. THE CONTRAST IS GENERALLY MEDIUM THROUGHOUT THE MISSION.
 - IMAGED DEGRADATIONS:
- A BAND OF FOG 0.65 INCH WIDE, ORIENTED PARALLEL TO THE (1)MINOR AXIS, IS PRESENT TWELVE INCHES FROM THE SUPPLY END OF MOST FORWARD FRAMES.
 - (2) A BAR OF FOG APPROXIMATELY Ø.1 INCH WIDE, ORIENTED



SECRET

PARALLEL TO THE MAJOR AXIS, IS LOCATED THREE INCHES FROM THE TAKE-UP END OF SOME FORWARD FRAMES.

- TRANSVERSE BANDING WAS NOTED INTERMITTENTLY THROUGHOUT THE MISSION WHERE DENSITY AND CONTRAST PERMIT DETECTION.
- A BAR OF FOG ABOUT 6.1 INCH WIDE, ORIENTED PARALLEL TO THE MAJOR AXIS, IS PRESENT FIVE INCHES FROM THE TAKE-UP END OF THE AFT FRAMES INTERMITTENTLY THROUGHOUT THE MISSION. (5) AREAS OF FOG, ASSOCIATED WITH CAMERA START-UP/ SHUT-DOWN, ARE PRESENT ON THE FIRST AND LAST FRAMES OF THE

MISSION.

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- (6) WHAT APPEARS TO BE A PROCESSING STREAK IS PRESENT ON FRAMES 446 - 447 AND 492 - 494. THIS STREAK IS AN INCH WIDE AND IS LOCATED ALONG THE NON-TITLED EDGE OF THE FILM.
 - D. PHYSICAL DEGRADATIONS:
- (1) NUMBEROUS EMULSION SCRATCHES ARE PRESENT FROM HEAD TO THE TAIL OF THE MISSION.
- (2) THE MISSION CONTAINS FOUR HEAT SPLICES AND TWO ULTRA-SONIC SPLICES.
- A BAND COMPRISED OF WHAT APPEARS TO BE 6.1 INCH LONG ABRASION MARKS IS PRESENT ON MOST FORWARD AND AFT FRAMES OF THE MISSION. THE ABRASIONS ARE ALIGNED PARALLEL TO THE MAJOR AXIS OF THE FILM. THE BAND WHICH THEY FORM IS ORIENTED AT A 45 DEGREE ANGLE TO THE MAJOR AXIS OF THE FILM. THESE MARKS ARE LOCATED NINE INCHES FROM THE TAKE-UP END OF THE FRAMES AND APPEAR TO BE CAUSED BY A STICKING 90 DEGREE TURN FILM PATH ROLLER.
 - E. DATA RECORDING EQUIPMENT: ALL SYSTEMS FUNCTIONED
- PROPERLY THROUGHOUT THE MISSION.
- F. THE LAST TITLED FRAME IS 1317 AND LAST COUNTER FRAME IS 1322. THIS FIVE INCREMENT BIAS EXISTS THROUGHOUT THE MISSION. GP-1 SECRET

-- NEND OF ESSAGE --